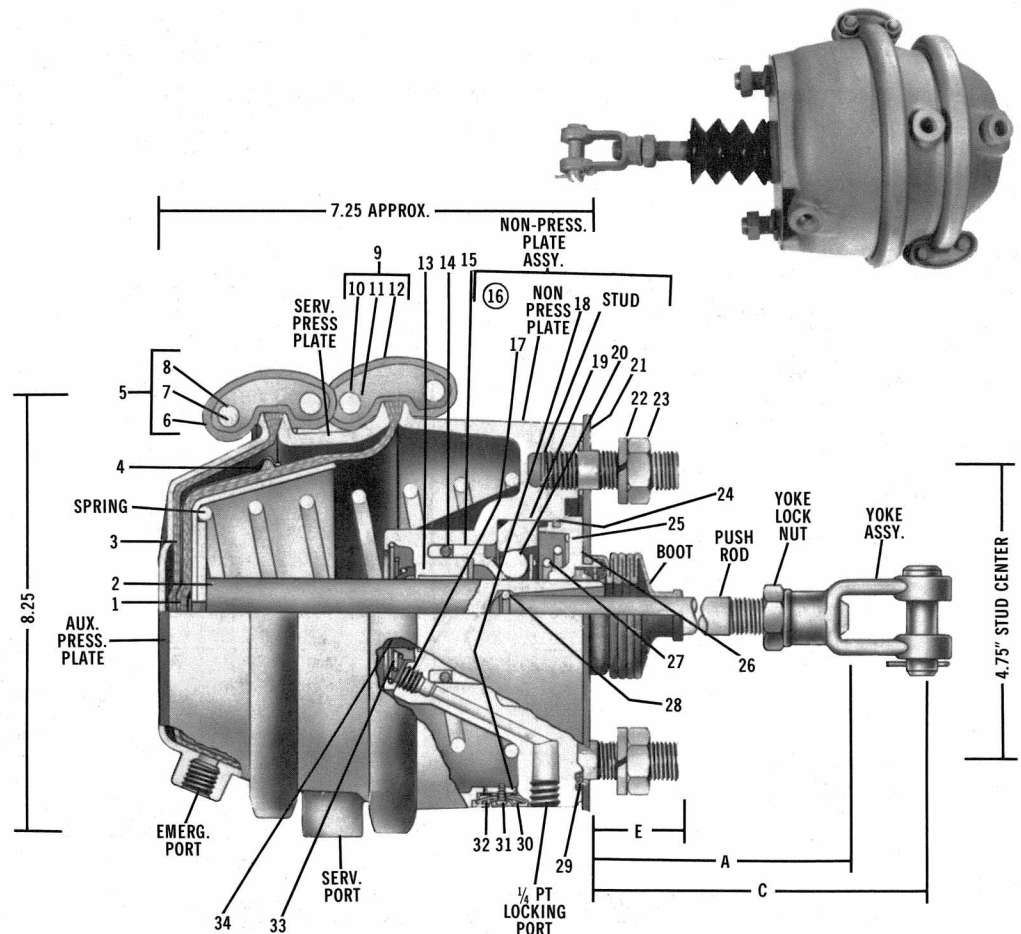
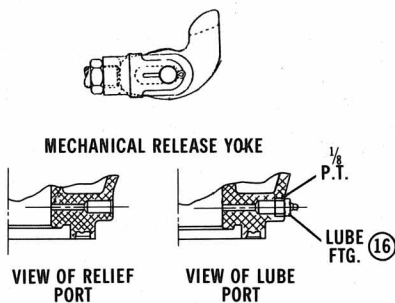


The DD3 is a double diaphragm air operated brake actuator with a shaft locking mechanism capable of locking on a brake application at any shaft extension. The locking mechanism is normally restrained in the non-locking position by air pressure. The double diaphragm permits the actuator to be operated by either of two sources of air pressure. The service diaphragm in the type 30 DD3 has 30 square inches effective area and the emergency diaphragm has 20 square inches. The type 24 has 24 square inches in the service diaphragm and 17 square inches in the emergency diaphragm.

For installation and maintenance information, see Service Data Sheet SD-02-4.

WEIGHT — 12.5 LBS.

3.00" MAX. STROKE

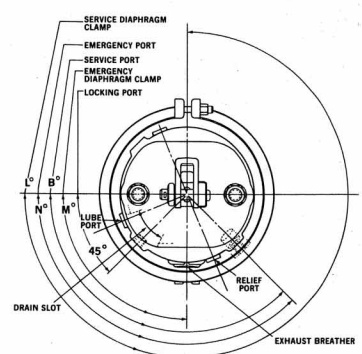
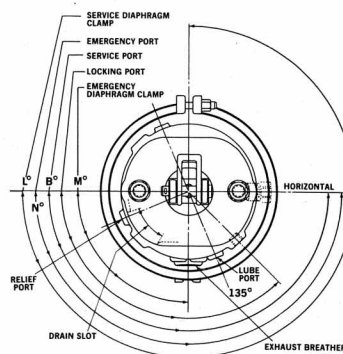
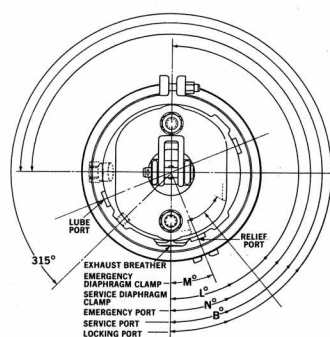
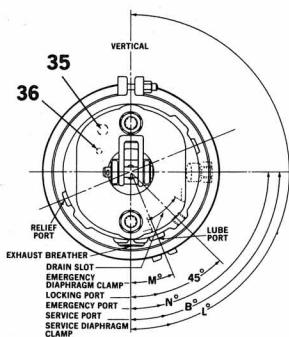


### COMMON SERVICE PARTS

NO.	PC. NO.	QUAN.	DESCRIPTION
1	246365	1	SERVICE DIAPHRAGM
2	277262	1	SHAFT
3	246674	1	AUXILIARY DIAPHRAGM
4	246364	1	DIAPHRAGM SEPARATOR
5	227744	1	CLAMP RING ASSY.
6	237886	2	BOLT
7	237887	2	NUT
8	237890	1	CLAMP RING
9	227745	1	CLAMP RING ASSY.
10	237886	2	BOLT
11	237887	2	NUT
12	237891	1	CLAMP RING

NO.	PC. NO.	QUAN.	DESCRIPTION
13	241997	1	NYLON BEARING
14	241999	1	O RING
15	242000	1	PISTON
SEE SCHEDULE		1	NON-PRESS PLATE ASSY.
16	214649	1	LUB. FITTING
17	233008	1	PIPE PLUG 1/16
SEE SCHEDULE		1	NON-PRESS. PLATE
18	246367	1	DIAPHRAGM RETAINER
SEE SCHEDULE		2	STUD
19	242001	1	COLLAR
20	242002	8	ROLLER
21	243570	1	SPLASH GUARD
22	202986	2	LOCKWASHER

NO.	PC. NO.	QUAN.	DESCRIPTION
23	204781	2	NUT
24	243682	1	O-RING
25	242004	1	WASHER
26	282424	1	CAP COMPLETE
27	242003	1	ROLLER SPRING
28	241993	1	RETAINING RING
29	246660	1	GASKET
30	246369	1	DIAPHRAGM WASHER
31	246370	1	SCREW
32	246673	1	DIAPHRAGM
33	246614	1	RETAINING SPRING
34	246612	1	ROD WIPER
35	241996	1	FELT BREATHER
36	243023	1	MACH SCREW



## SUB ASSY AND DETAIL REFERENCE

DD3 SAFETY ACT. (TYPE 24) PC. NO.	AUX. PRESS. PLATE	SERV. PRESS. PLATE	NON- PRESS. PLATE	BOOT	SPRING	PUSH ROD	YOKE NUT	YOKE OR MECH. REL. YOKE ASSY.*	A ROD END TO PLATE	B DEG.	C YOKE PIN TO PLATE	E STUD END TO PLATE	L DEG.	M DEG.	N DEG.
VERTICAL — LEFT HAND															
285036	277363	242008	285123	242013	242413	242398	204781	228790	1.66	90	2.88	1.50	180	0	90
285038	277363	242008	285123	242013	242413	242398	204781	228790	1.66	90	2.88	1.50	180	0	90
285040	277363	242008	285119	242013	242413	241992	204781	228790	10.41	90	11.50	1.25	180	0	90
285042	277363	242008	285119	242013	242413	243017	204781	277850	1.53	90	2.62	1.25	180	0	90
285044	277363	242008	285119	243727	242413	YOKE & P.R. ASSY.		278688	—	180	1.50	1.25	225	270	180
285050	277363	242008	285119	242013	242413	248000	204781	228790	2.31	180	3.31	1.25	225	0	180
285056	277363	242008	285125	242013	242413	242398	204781	228790	1.66	90	2.88	1.50	180	0	90
286928	277363	242008	285119	242013	242413	242398	204781	228798	1.66	90	2.88	1.25	180	0	90
289241	287165	290981	285119	242013	242413	248101	204781	279200*	12.91	90	14.25	1.25	180	0	90
VERTICAL — RIGHT HAND															
285037	277363	242008	285124	242013	242413	242398	204781	228790	1.66	270	2.88	1.50	180	0	270
285039	277363	242008	285124	242013	242413	242398	204781	228790	1.66	270	2.88	1.50	180	0	270
285041	277363	242008	285120	242013	242413	241992	204781	228790	10.41	270	11.50	1.25	180	0	270
285043	277363	242008	285120	242013	242413	243017	204781	277850	1.53	270	2.62	1.25	180	0	270
285045	277363	242008	285120	243727	242413	YOKE & P.R. ASSY.		278688	—	180	1.50	1.25	135	90	180
285051	277363	242008	285120	242013	242413	248000	204781	228790	2.31	180	3.31	1.25	135	0	180
285057	277363	242008	285125	242013	242413	242398	204781	228790	1.66	270	2.88	1.50	180	0	270
286929	277363	242008	285120	242013	242413	242398	204781	228798	1.66	270	2.88	1.25	180	0	270
289242	287165	290981	285120	242013	242413	248101	204781	279200*	12.91	270	14.25	1.25	180	0	270
HORIZONTAL — LEFT HAND															
285046	277363	242008	285121	242013	242413	241992	204781	228790	10.41	180	11.50	1.25	270	90	180
HORIZONTAL — RIGHT HAND															
285047	277363	242008	285122	242013	242413	241992	204781	228790	10.41	0	11.50	1.25	270	90	0

NON-PRESS PLATE ASSY.	NON- PRESS. PLATE	STUD
285119	249255	240538
285120	249256	240538
285121	249257	240538
285122	249258	240538
285123	249255	212964
285124	249256	212964
285125	249259	212964

AUX. PRESS. PLATE	EMERG. PORT P.T.
277363	1/4
287165	3/8

SERV. PRESS. PLATE	SERV. PORT P.T.
242008	1/4
290981	3/8

## DD3 CONVERSION/INTERCHANGE LISTING

The DD3 Safety Actuator has had three (3) design changes (revisions) since its introduction. Refer to the listing below for current Pc. No.

REV. 0	REV. 1	REV. 2	REV. 3	REV. 0	REV. 1	REV. 2	REV. 3	REV. 0	REV. 1	REV. 2	REV. 3	REV. 0	REV. 1	REV. 2	REV. 3
277260	282601	285036	287530	282602	285037	287540	—	283523	285050	287535	—	285045	287189	—	—
277767	282602	285037	287450	282603	285038	287531	—	283524	285051	287545	—	285046	287550	—	—
277768	282615	285046	287550	282604	285039	287541	—	283684	285052	287536	—	285047	287551	—	—
277769	282616	285047	287551	282605	285040	287532	—	283685	285053	287546	—	285048	287534	—	—
280504	282603	285038	287531	282606	285041	287542	—	283687	285054	287537	—	285049	287544	—	—
280505	282604	285039	287541	282607	285042	287533	—	283688	285055	287547	—	285050	287535	—	—
280506	282605	285040	287532	282608	285043	287543	—	284111	285056	287538	—	285051	287545	—	—
280507	282606	285014	287542	282609	—	—	—	284112	285057	287548	—	285052	287536	—	—
280818	282607	285042	287533	282610	—	—	—	285036	287530	—	—	285053	287546	—	—
280819	282608	285043	287543	282611	—	—	—	285037	287540	—	—	285054	287537	—	—
280820	282609	—	—	282612	—	—	—	285038	287531	—	—	285055	287547	—	—
280821	282610	—	—	282613	285044	287188	—	285039	287541	—	—	285056	287538	—	—
281197	282611	—	—	282614	285045	287189	—	285040	287532	—	—	285057	287548	—	—
281198	282612	—	—	282615	285046	287550	—	285041	287542	—	—	286928	287539	—	—
282040	282613	285044	287188	282616	285047	287551	—	285042	287533	—	—	286929	287549	—	—
282041	282614	285045	287189	283087	285048	287534	—	285043	287543	—	—				
282601	285036	287530	—	283088	285049	287544	—	285044	287188	—	—				